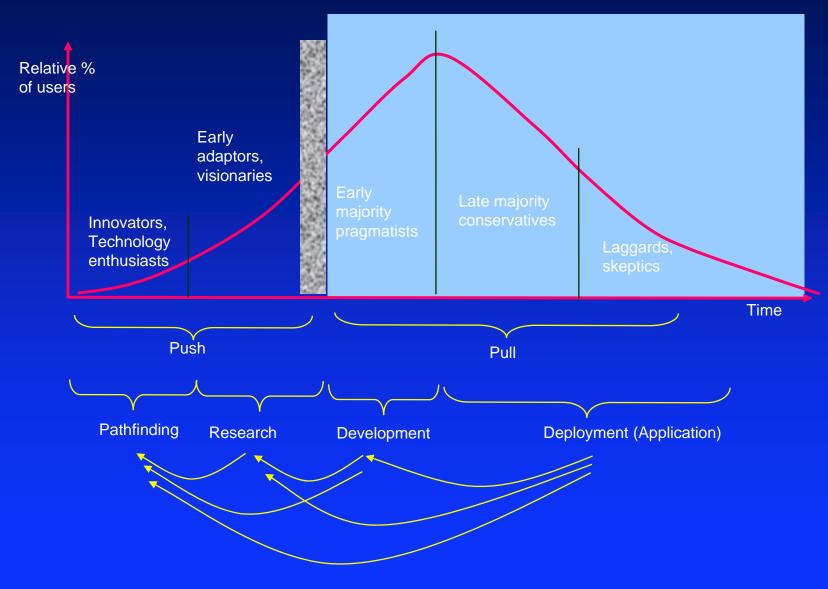
# Standardization and Harmonization of Imaging for Clinical Trials

**PhRMA Perspective** 

Mostafa Analoui

### **Clinical Imaging: Innovation to Deployment**



Modified version of Norman model (1998: The invisible Computer)

## **Key Challenges**

#### 1. Image Acquisition:

- High cost associated with optimal acquisition protocols
- Insufficient plans to for re-utilization and sharing
- Inconsistent image quality

#### 2. Image Analysis:

- Large uncoordinated investments for tool development and validation
- Lack of standard and guidelines for pharma,
- Subjective and sub-optimal analysis
- Manual measures requiring large number of technicians, long delay for execution.

#### 3. Image Archival, Management:

- Lack of standards for image archival and access
- Repeated investment across pharma, and clinical trials
- Increased interest from regulators for access to original and analyzed images
- Disconnect between clinical data and imaging for access and archival
- Potential loss of opportunity for development of large clinical imaging databases to support biomarker strategy and future developments

#### 4. Radiolabeling of Biologiclas:

- Extensive safety assessment maybe required to deploy radiolabeled versions of large biologicals
- Need for guidance for assessment of radiolabeled version of a biological

## PhRMA's Perspective

Need for consensus and partnership toward developing industry standard, regulatory and clinical guidelines for harmonizing and standardizing imaging in clinical trials to manage quality, cost and time.

## **Four Key Questions**

- A. Why do we need standards? (Impact on Quality, Cost, Speed)
- B. When do we need standardization vs. harmonization?
- C. Priority list of areas that guideline would be required: Limited, initial list of modality-disease-endpoint specific projects that are most critical for key players to begin with.
- D. Identify key partners and expected role for each of them. Partners and their roles could be project-specific.

## Partners and Players

